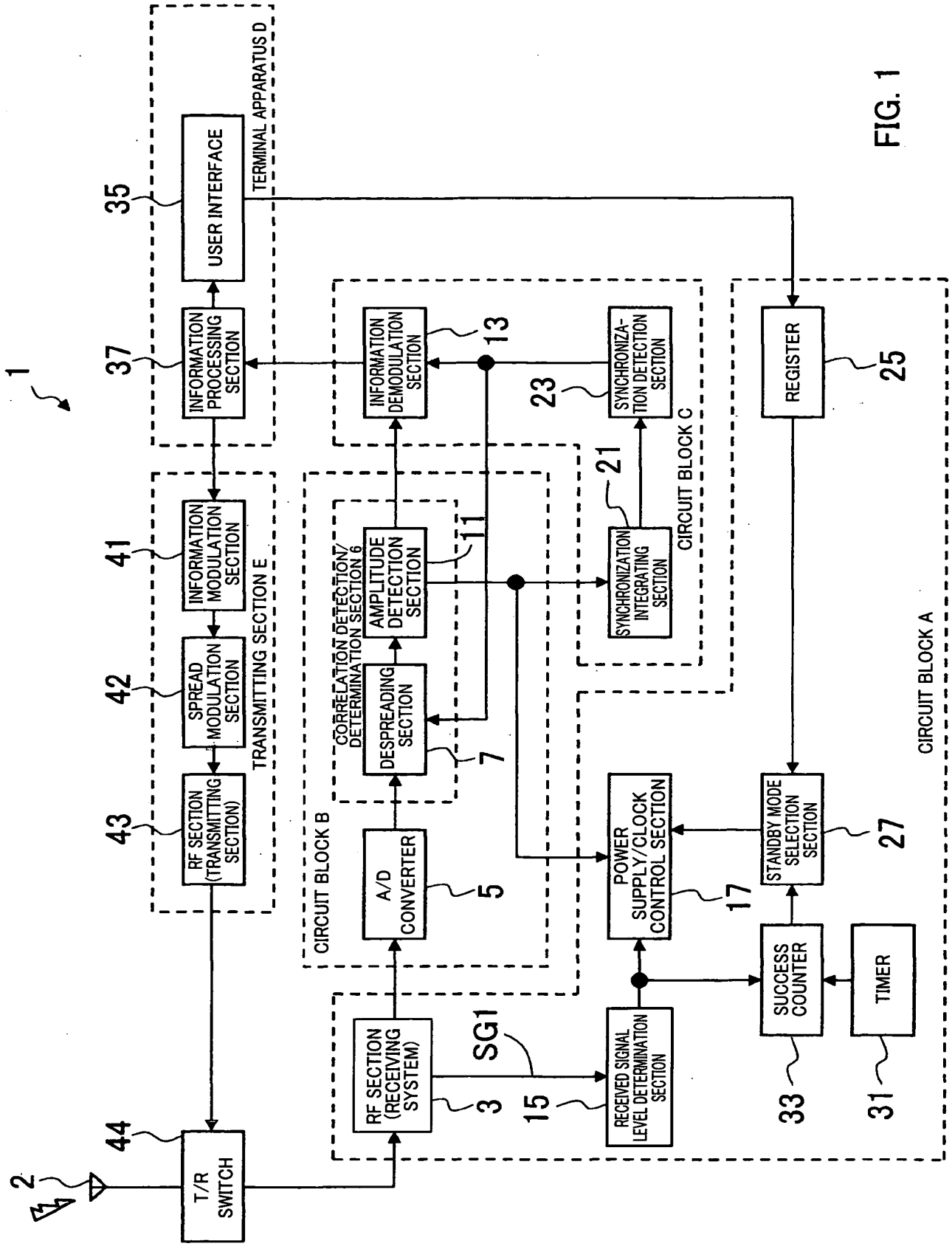

1
2
TERMINAL APPARATUS D
TRANSMITTING SECTION E
CIRCUIT BLOCK A
CIRCUIT BLOCK B
CIRCUIT BLOCK C
CORRELATION DETECTION/ DETERMINATION SECTION 6
USER INTERFACE
35
INFORMATION PROCESSING SECTION
37
INFORMATION MODULATION SECTION
41
SPREAD MODULATION SECTION
42
RF SECTION (TRANSMITTING SECTION)
43
T/R SWITCH
44
INFORMATION DEMODULATION SECTION
13
SYNCHRONIZA-TION DETECTION SECTION
23
AMPLITUDE DETECTION SECTION
11
DESPREADING SECTION
7
A/D CONVERTER
5
RF SECTION (RECEIVING SYSTEM)
3
SG1
RECEIVED SIGNAL LEVEL DETERMINATION SECTION
15
SYNCHRONIZATION INTEGRATING SECTION
21
POWER SUPPLY/CLOCK CONTROL SECTION
17
REGISTER
25
STANDBY MODE SELECTION SECTION
27
SUCCESS COUNTER
33
TIMER
31

FIG. 1

FIG. 2

USER INTERFACE	STANDBY MODE SELECTION PROCESS
NORMAL STANDBY	NORMAL OPERATION MODE
LOW POWER CONSUMPTION STANDBY	LOW POWER CONSUMPTION MODE
AUTOMATIC SELECTION	AUTOMATICALLY SELECT EITHER ONE OF NORMAL OPERATION MODE AND LOW POWER CONSUMPTION MODE

FIG. 3

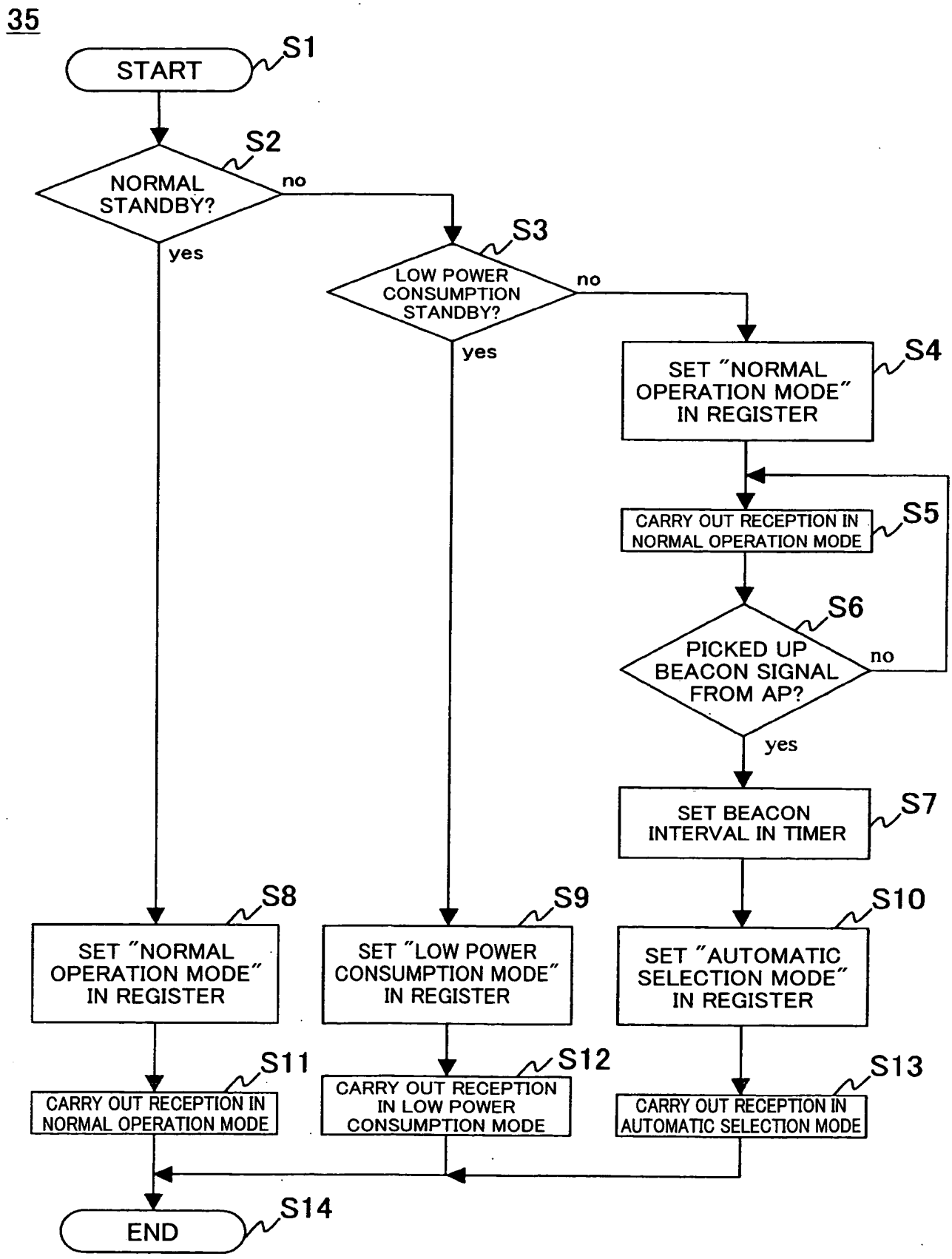

35
START
S1
NORMAL STANDBY?
S2
no
yes
LOW POWER CONSUMPTION STANDBY?
S3
no
yes
SET "NORMAL OPERATION MODE" IN REGISTER
S4
CARRY OUT RECEPTION IN NORMAL OPERATION MODE
S5
PICKED UP BEACON SIGNAL FROM AP?
S6
no
yes
SET BEACON INTERVAL IN TIMER
S7
SET "NORMAL OPERATION MODE" IN REGISTER
S8
SET "LOW POWER CONSUMPTION MODE" IN REGISTER
S9
SET "AUTOMATIC SELECTION MODE" IN REGISTER
S10
CARRY OUT RECEPTION IN NORMAL OPERATION MODE
S11
CARRY OUT RECEPTION IN LOW POWER CONSUMPTION MODE
S12
CARRY OUT RECEPTION IN AUTOMATIC SELECTION MODE
S13
END
S14

FIG. 4

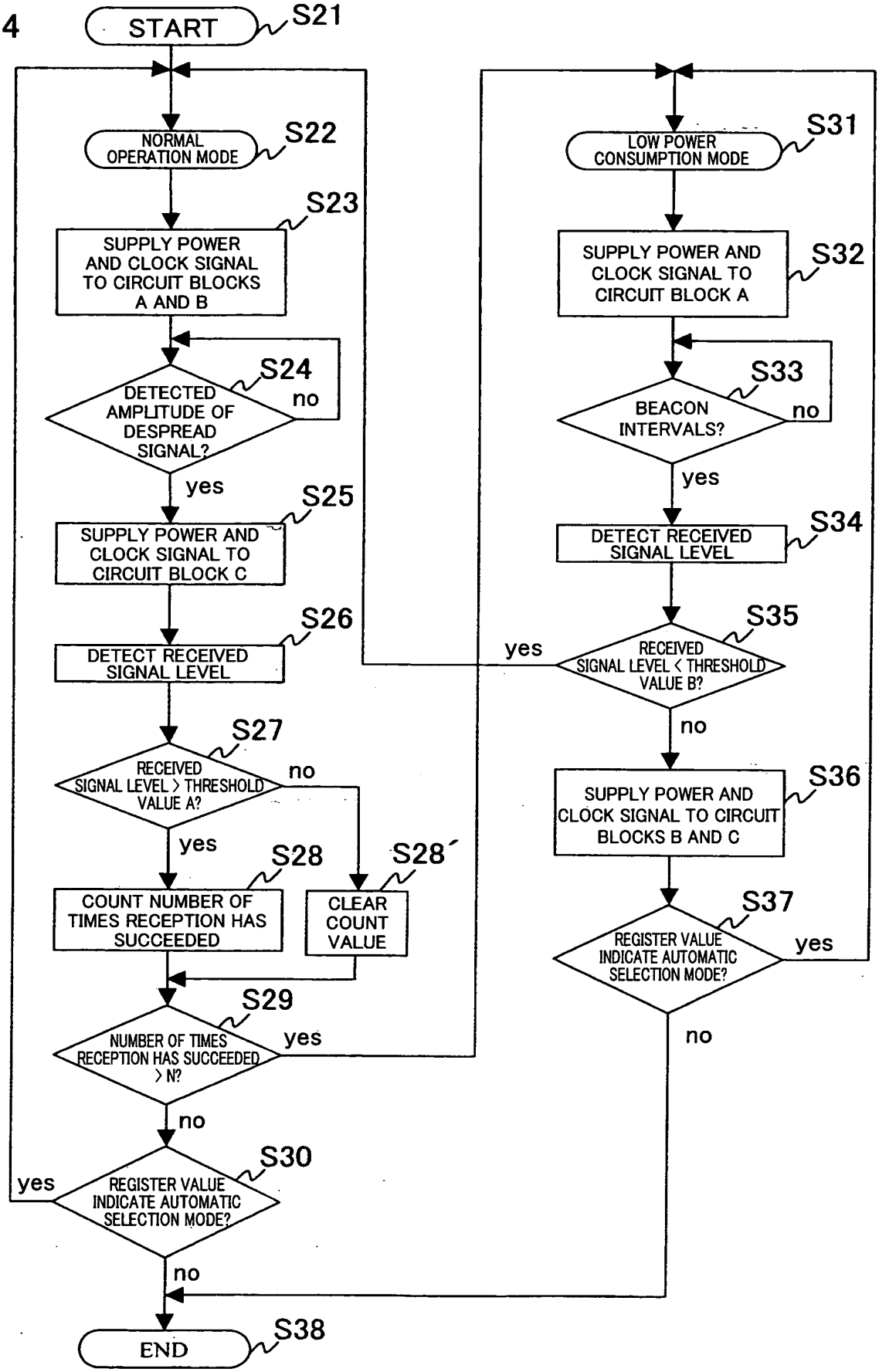
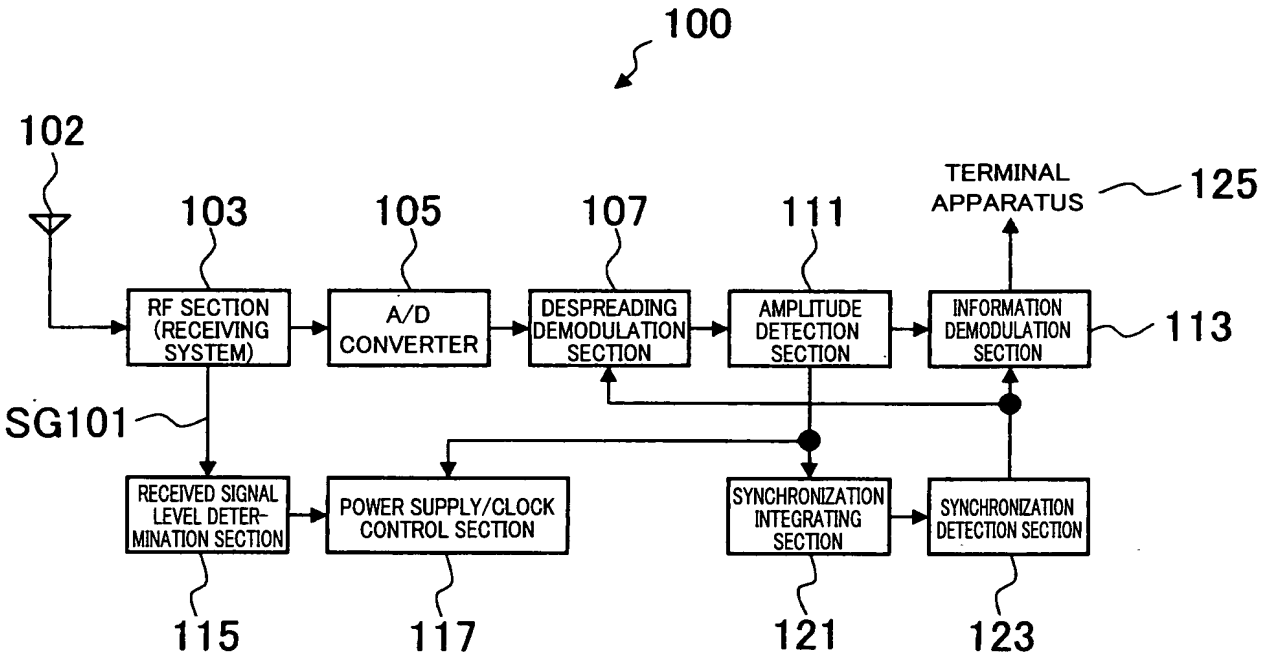

START
S21
NORMAL OPERATION MODE
S22
SUPPLY POWER AND CLOCK SIGNAL TO CIRCUIT BLOCKS A AND B
S23
DETECTED AMPLITUDE OF DESPREAD SIGNAL?
S24
no
yes
SUPPLY POWER AND CLOCK SIGNAL TO CIRCUIT BLOCK C
S25
DETECT RECEIVED SIGNAL LEVEL
S26
RECEIVED SIGNAL LEVEL > THRESHOLD VALUE A?
S27
no
yes
COUNT NUMBER OF TIMES RECEPTION HAS SUCCEEDED
S28
CLEAR COUNT VALUE
S28'
NUMBER OF TIMES RECEPTION HAS SUCCEEDED > N?
S29
yes
no
REGISTER VALUE INDICATE AUTOMATIC SELECTION MODE?
S30
yes
no
END
S38
LOW POWER CONSUMPTION MODE
S31
SUPPLY POWER AND CLOCK SIGNAL TO CIRCUIT BLOCK A
S32
BEACON INTERVALS?
S33
no
yes
DETECT RECEIVED SIGNAL LEVEL
S34
RECEIVED SIGNAL LEVEL < THRESHOLD VALUE B?
S35
yes
no
SUPPLY POWER AND CLOCK SIGNAL TO CIRCUIT BLOCKS B AND C
S36
REGISTER VALUE INDICATE AUTOMATIC SELECTION MODE?
S37
yes
no

FIG. 5


100
102
103
105
107
111
TERMINAL APPARATUS
125
RF SECTION (RECEIVING SYSTEM)
A/D CONVERTER
DESPREADING DEMODULATION SECTION
AMPLITUDE DETECTION SECTION
INFORMATION DEMODULATION SECTION
113
SG101
RECEIVED SIGNAL LEVEL DETER-MINATION SECTION
POWER SUPPLY/CLOCK CONTROL SECTION
SYNCHRONIZATION INTEGRATING SECTION
SYNCHRONIZATION DETECTION SECTION
115
117
121
123

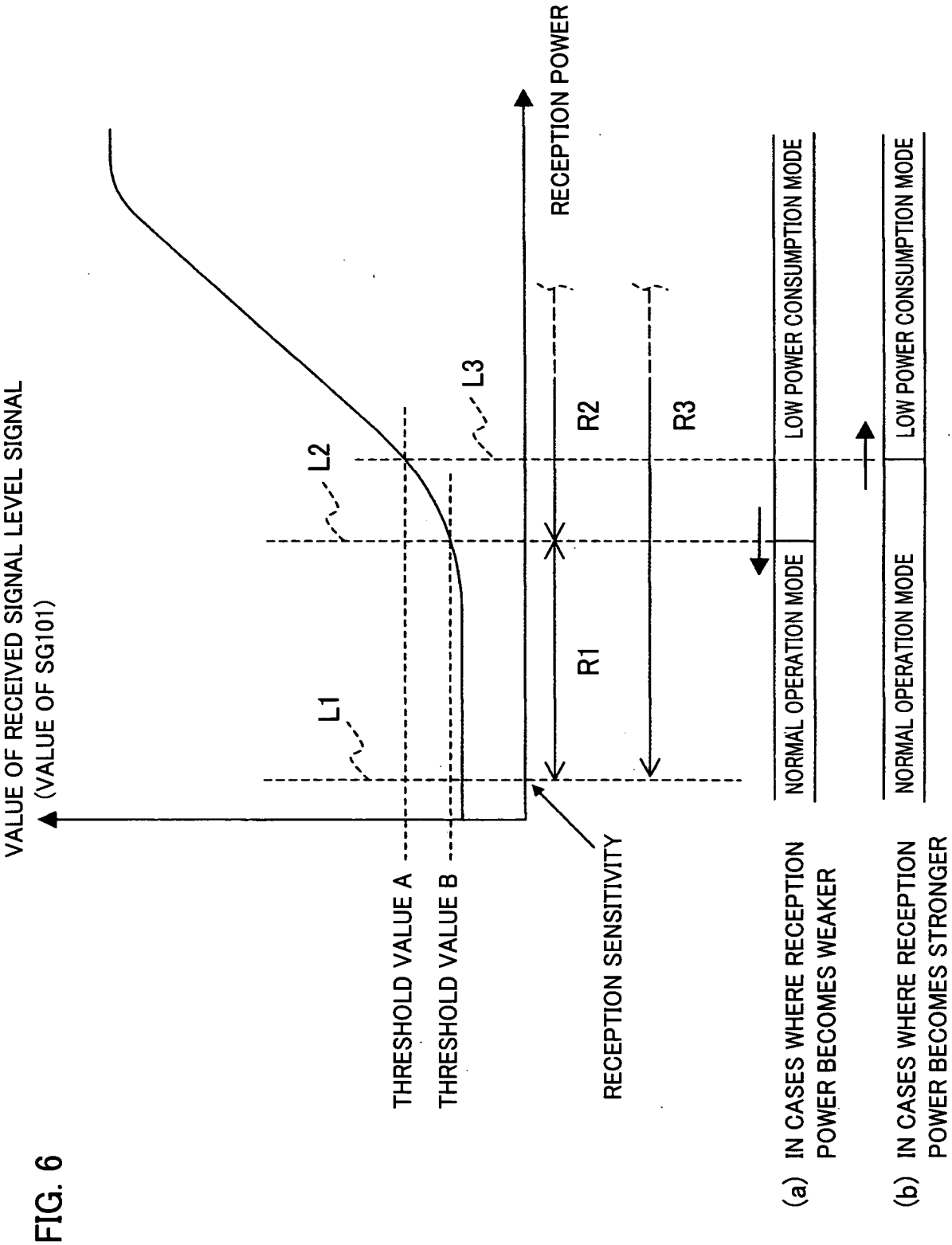

VALUE OF RECEIVED SIGNAL LEVEL SIGNAL
(VALUE OF SG101)
RECEPTION POWER
L1
L2
L3
R1
R2
R3
THRESHOLD VALUE A
THRESHOLD VALUE B
RECEPTION SENSITIVITY
NORMAL OPERATION MODE
LOW POWER CONSUMPTION MODE
(a) IN CASES WHERE RECEPTION POWER BECOMES WEAKER
(b) IN CASES WHERE RECEPTION POWER BECOMES STRONGER

FIG. 6

FIG. 7

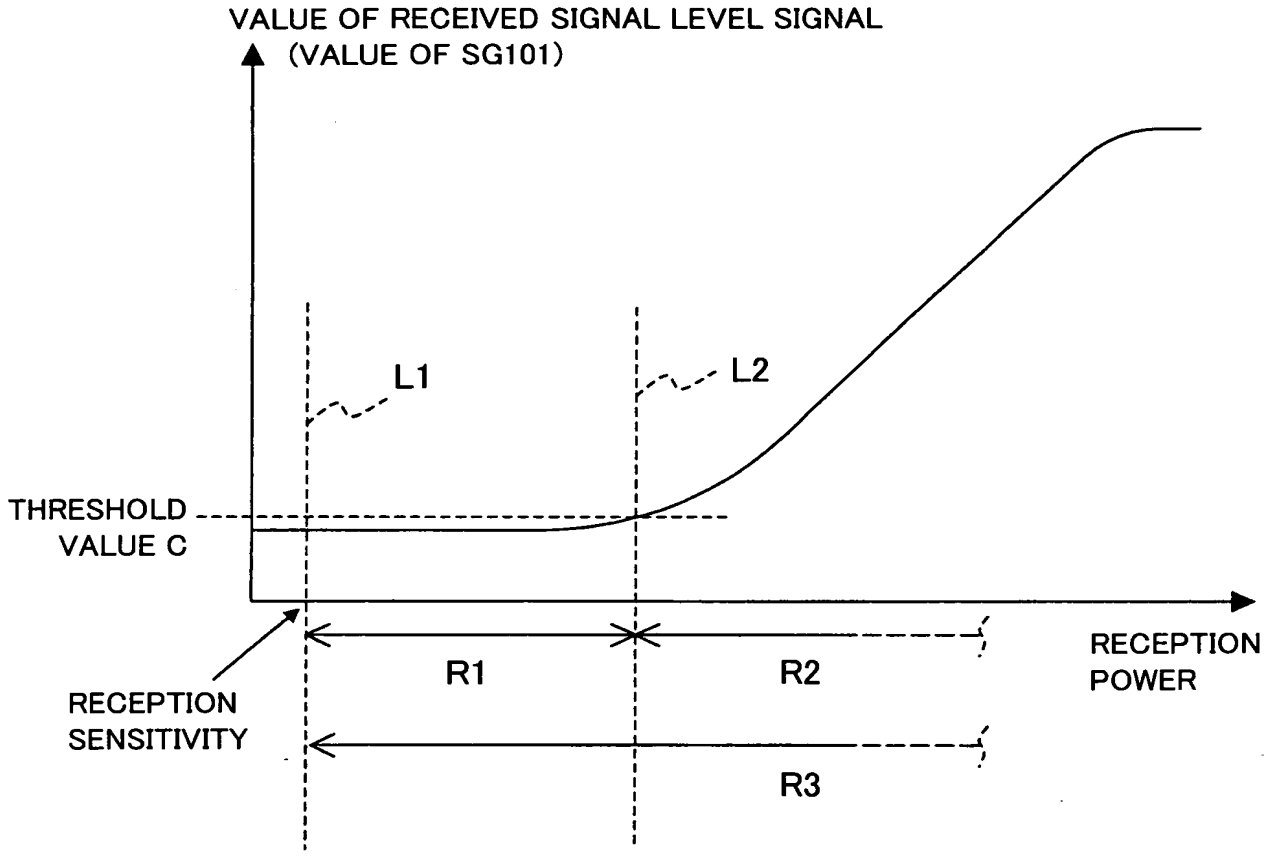
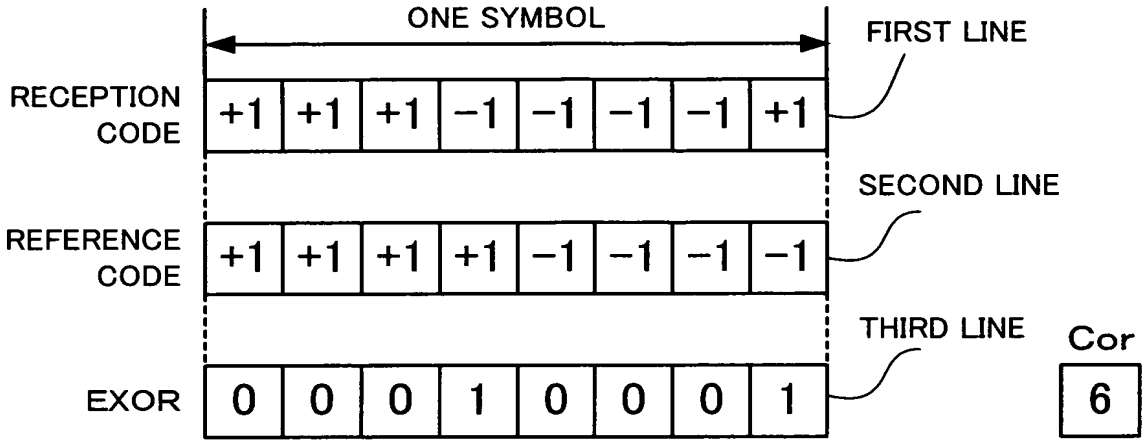

VALUE OF RECEIVED SIGNAL LEVEL SIGNAL
(VALUE OF SG101)
L1
L2
THRESHOLD
VALUE C
RECEPTION
POWER
R1
R2
RECEPTION
SENSITIVITY
R3

FIG. 8


ONE SYMBOL
FIRST LINE
RECEPTION CODE
+1 +1 +1 −1 −1 −1 −1 +1
SECOND LINE
REFERENCE CODE
+1 +1 +1 +1 −1 −1 −1 −1
THIRD LINE
Cor
EXOR
0 0 0 1 0 0 0 1
6